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Notice of Allowability	Application No.	Applicant(s)	
	09/838,181	ITO ET AL.	
	Examiner	Art Unit	
	Man Phan	2665	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communications filed 03/07/05.
2. ☒ The allowed claim(s) is/are 2-8, 11-17 (Claims are renumbered as 1-14 respectively).
3. ☒ The drawings filed on 07 March 2005 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date <u>1/4/05</u> 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. 7. <input type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
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Reason for allowance

1. This communication is in response to applicant's 03/07/2005 Amendment in the application of Ito et al. for a "Packet transmission/reception" filed 04/20/2001. This application claims foreign priority based on the application 2000-124867 filed April 25, 2000 in Japan. The proposed amendment to the claims and response have been entered and made of record. Claims 1, 9-10 have been canceled per Applicant's request, and claims 2-4, 6, 8 have been amended. New claims 11-17 have been added. Applicant's argument and explanation with regard to the rejection under 35 USC 103 are persuasive. The claims have been amended to better point out and more distinctly claim subject matter comprising the invention.

The corrected or substitute drawings were received on 03/07/05. These drawings are approved. The objections of record with respect to the drawings are hereby removed based on applicant's amendment.

2. Claims 2-8, 11-17 are allowable as evident by applicant's amendment (Claims are renumbered as 1-14 respectively).

3. The following is an examiner's statement of reasons for allowance: The instant application is deemed to be directed to a no obvious improvement over the prior art of record. The improvement comprises the feature to a link core circuit for receiving a packet externally delivered through a bus; a packet processing controller for processing the packet received by the link core circuit, generating a packet to be transmitted in response to the received packet, and

supplying the packet to be transmitted to the link core circuit; a packet processing control timer for clocking how much time has passed since the packet was received by the link core circuit and for generating a signal when the time passed reaches a predetermined amount of time, wherein the link core circuit sends out the packet to be transmitted, supplied from the packet processing controller, by way of the bus, and responsive to the signal supplied from the packet processing control timer, the packet processing controller stops processing the received packet, generates another packet to be transmitted in response to the received packet and restarts processing the received packet, as specifically recited in the claims.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The Muto (US#6,580,711) is cited to show the serial interface circuit and signal processing method of the same.

The Williams (US#6,205,494) is cited to show the controller with automatic generation of linked list of data transfer descriptors for sequential commands, with linked list being used for execution of sequential data transfers.

The Tachibana (US#2005/0163120) is cited to show the data processing circuit.

The Hanaoka et al. (US#6,457,079) is cited to show the communication apparatus with means for allocating alternate designation information to each function unit, and communication system with said two communication apparatuses.

The Hata (US#2001/0017860) is cited to show the communication control device and method.

The Yumiba et al. (US#6,654,380) is cited to show the data exchange unit.

The Ishimura et al. (US#6,693,905) is cited to show the data exchange unit.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Man U. Phan whose telephone number is (571) 272-3149. The examiner can normally be reached Monday through Friday from 6:00 am to 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

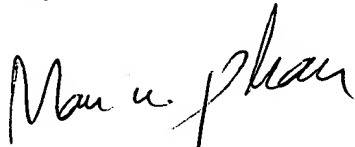
Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

Art Unit: 2665

8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have any questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at toll free 1-866-217-9197.

MPhan

Aug. 02, 2005


MAN U. PHAN
PRIMARY EXAMINER